

# Quantum Key Distribution

The revolution that protects



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The tremendous computational potential provided by innovative technologies such as Quantum Computing puts the security of classical cryptography at serious risk. In response to this problem, **Telsy and QTI** are taking the field with Quantum Key Distribution.

ha formattato: Tipo di carattere: Grassetto

## Quantum Key Distribution

One of the most significant vulnerabilities in today's cryptographic security lies in the exchange of encryption keys.

Quantum Key Distribution (QKD) is a technology based on the laws of quantum mechanics that exploit the physical properties of photons to enable the distribution of random keys between remote users, guaranteeing absolute security between operating encryptors.

### TELSY'S ANSWER

In 2021, Telsy and QTI, a leading Italian company in QKD, began a strategic partnership to develop an E2E encryption system compatible with the current telecommunications infrastructure for civil and military applications, based on the integration of QTI's QKD system and Telsy's classic cryptographic solutions.

Quell-X is the solution provided by QTI and Telsy, a QKD system consisting of an Alice and a Bob unit capable of generating and distributing encryption keys for ultra-secure communications.

## Why Quell-X

- **Absolute security**
- **Flexibility of integration**
- **European supply chain**
- **Telsy-QTI in-house development**



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